Am indiments to the Claims:

1. (Currently amended) A method of calculating capacity of an intelligent battery equipped with a current measurement circuit to measure an electric current value on which calculation of battery capacity is based, comprising the steps of:

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(a) sending, from a system to the an SBS-compliant intelligent battery, a notice that it shifts to a low electric power consumption mode, and a consumption electric current value or a consumption electric power value in the low electric power consumption mode unique to the system, when the system using the intelligent battery shifts from a normal operational mode to the low electric power consumption mode, the notice being defined in at least one command selected from among OptionalMfgFunction1 to OptionalMfgFunction5 of SBS;

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(b) performing subtraction of capacity data of the intelligent battery based on the received consumption electric current value or consumption electric power value in the low electric power consumption mode, and disabling capacity calculation by the current measurement circuit;

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- (c) sending, from the system to the intelligent battery, a notice of shifting to the normal operational mode, and stopping the subtraction of capacity data based on the consumption electric current value or consumption electric power value in the low electric power consumption mode, and enabling capacity calculation by the current measurement circuit, when the system using the intelligent battery shifts from the low electric power consumption mode to the normal operational mode.
- 1 2. (Previously Amended) The method of calculating capacity of an intelligent
- 2 battery according to Claim 1, wherein said low electric power consumption mode is
- 3 a soft-off state or a suspended state.

JP920000409US1

3 (Canceled).

1	4 (Original)	The method of calculating capacity of an intelligent battery according to
2	Claim 1,	

wherein, in the low electric power consumption mode:

(a) on detecting that the intelligent battery is drawn out of the system, the subtraction of capacity data based on the received consumption electric current value or consumption electric power value in the low electric power consumption mode is stopped;

(b) next, on detecting that the intelligent battery is connected to the system, the battery counts time from the connection; and

(c) when the system using the intelligent battery shifts from the low electric power consumption mode to the normal operational mode:

(i) the system sends a notice is sent to the effect that it is reconnected to the intelligent battery and also sends the consumption electric current value or consumption electric power value in the low electric power consumption mode unique to the system;

 (ii) capacity to be subtracted from reconnection is calculated from the received consumption electric current value or consumption electric power value and the counted time, and the calculated capacity to be subtracted is subtracted from the capacity data; and

(d) next, a notice is sent from the system to the intelligent battery to the effect

JP920000409US1

28	that it shifts to the normal operational mode and also the subtraction of capacity data			
29	based on the consumption electric current value or consumption electric power value			
30	in the low electric power consumption mode is stopped, and capacity calculation by			
31	the current measurement circuit is enabled on the other hand.			
<u>.</u>				
1	5 (Original) The method of calculating capacity of an intelligent battery according to			
2	Claim 1,			
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4	wherein, in the low electric power consumption mode:			
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6	(a) on detecting that the intelligent battery is drawn out of the system, that the			
7	intelligent battery stops the subtraction of capacity data based on the consumption			
8	electric current value or consumption electric power value received in the low electric			
9	power consumption mode;			
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11	(b) next, on detecting that the intelligent battery is connected to the system:			
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13	(i) the system recognizing the connection sends a notice to the effect that			
14	it is reconnected to the intelligent battery and also sends the consumption			
15	electric current value or consumption electric power value in the low electric			
16	power consumption mode unique to the system;			
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18	(ii) the intelligent battery resumes subtraction of capacity data based on			
19	the received consumption electric current value or consumption electric power			
20	value in the low electric power consumption mode, and disables capacity			
21	calculation by the current measurement circuit on the other hand;			
22				
23	(c) when the system using the intelligent battery shifts from the low electric			

JP920000409US1

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power consumption mode to the normal operational mode, the system sends a notice

to the battery that it shifts to the normal operational mode and also stops the subtraction of capacity data based on the consumption electric current value or consumption electric power value in the low electric power consumption mode, and enables capacity calculation by the current measurement circuit on the other hand.

6 (Canceled).

7 (Withdrawn) An intelligent battery for use with a portable electronic device having a first system component for operating with supplied electric power in a normal operational mode but not operating with no supplied electric power in the low electric power consumption mode, and a second system component for operating with supplied electric power both in the normal operational mode and in the low electric power consumption mode, and a controller for supplying electric power to said first and second system components in the normal operational mode and supplying electric power to said second system component and stopping supply of electric power to said first system component in the low electric power consumption mode, comprising:

(a) a timer;

(b) a mode shift notice receiving unit for receiving a mode shift notice indicating a shift from the normal operational mode to the low electric power consumption mode or a shift from the low electric power consumption mode to the normal operational mode and a consumption electric current value or a consumption electric power value in the low electric power consumption mode unique to the second system component;

(c) a unit for calculating capacity data to be subtracted based on a period of the low electric power consumption mode after shifting to the mode measured by the timer and the received consumption electric current value or consumption electric power value in the low electric power consumption mode.

JP920000409US1

8 (Withdrawn) An intelligent battery for use with a portable electronic device having a first system component for operating with supplied electric power in the normal operational mode but not operating with no supplied electric power in the low electric power consumption mode, and a second system component for operating with supplied electric power both in the normal operational mode and in the low electric power consumption mode, and a controller for supplying electric power to said first and second system components in the normal operational mode and supplying electric power to said second system component and stopping supply of electric power to said first system component in the low electric power consumption mode, comprising:

(a) a timer;

(b) a mode shift notice receiving unit for receiving a mode shift notice indicating a shift from the normal operational mode to the low electric power consumption mode or a shift from the low electric power consumption mode to the normal operational mode and, based on a consumption electric current value or a consumption electric power value in the low electric power consumption mode unique to the second system component calculated on the system side, consumption battery capacity data assumed to be consumed during the low electric power consumption mode;

(c) a unit for calculating capacity data to be subtracted based on a period of the low electric power consumption mode after shifting to the mode measured by the timer and the received consumption battery capacity data in the low electric power consumption mode.

9 (Currently amended) A portable electronic device, comprising:

JP920000409US1

IP920000409US1 7		
31	(iv) in the low electric power consumption mode, performing subtraction	
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29	said intelligent battery characterized by :	
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27	notice of shifting to the normal operational mode; and	
26	normal operational mode, sending from the system to the intelligent battery a	
25	(iii) when shifting from the low electric power consumption mode to the	
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23	, and	
22	selected from among OptionalMfgFunction1 to OptionalMfgFunction5 of SBS	
21	unique to the system , the notice being defined in at least one command	
20	a consumption electric current value or a consumption electric power value	
19	notice of shifting to the low electric power consumption mode and also sending	
18	power consumption mode, sending to an SBS-compliant intelligent battery a	
17	(ii) when shifting from the normal operational mode to the low electric	
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15	the low electric power consumption mode;	
14	component and stop supply of electric power to said first system component in	
13	system components, and supply electric power to said second system	
12	(i) performing control to supply electric power to said first and second	
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10	(c) a controller for:	
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8	in the normal operational mode and in the low electric power consumption mode; and	
7	(b) a second system component for operating with supplied electric power both	
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5	electric power consumption mode;	
4	normal operational mode but not operating with no supplied electric power in the low	
3	(a) a first system component for operating with supplied electric power in the	

ŲŽ	of capacity data has a off the received consumption electric current value of		
33	consumption electric pow r valu in th mode, and disabling capacity		
34	calculation on the current measurement circuit on the other hand;		
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36	(v) when shifting from the low electric power consumption mode to the		
37	normal operational mode, stopping the subtraction of capacity data based or		
38	the consumption electric current value or consumption electric power value in		
39	the low electric power consumption mode, and enabling capacity calculation by		
40	the current measurement circuit on the other hand.		
1	10 (Currently amended) A portable electronic device, comprising:		
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3	(a) a first system component for operating with supplied electric power in a		
4	normal operational mode but not operating with no supplied electric power in a low		
5	electric power consumption mode;		
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7	(b) a second system component for operating with supplied electric power both		
8	in the normal operational mode and in the low electric power consumption mode; and		
9			
10	(c) a controller for:		
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12	(i) performing control to supply electric power to said first and second		
13	system components, and supply electric power to said second system		
14	component and stop supply of electric power to said first system component in		
15	the low electric power consumption mode;		
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17	(ii) when shifting from the normal operational mode to the low electric		
18	power consumption mode, sending from a system to an SBS-compliant		
19	intelligent battery a notice of shifting to the low electric power consumption		

mode and also sending consumption battery capacity data assumed to be consumed during the low lectric power consumption mode based on a consumption electric current value or a consumption electric power value in the low electric power consumption mode unique to the second system component calculated on the system side , the notice being defined in at least one command selected from among OptionalMfgFunction1 to OptionalMfgFunction5 of SBS,; and

(iii) when shifting from the low electric power consumption mode to the normal operational mode, sending from the system to the intelligent battery a notice of shifting to the normal operational mode; and

said intelligent battery characterized by:

(iv) performing subtraction of the capacity data based on the received consumption battery capacity data in the low electric power consumption mode, and disabling capacity calculation on the current measurement circuit on the other hand;

(v) when shifting from the low electric power consumption mode to the normal operational mode, stopping the subtraction of capacity data based on the consumption current capacity data in the low electric power consumption mode, and enabling capacity calculation by the current measurement circuit on the other hand.

JP920000409US1